



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Tuesday, July 11, 2017
WELL WORK PERMIT
Vertical / Plugging

EQT PRODUCTION COMPANY
120 PROFESSIONAL PLACE
BUILDING II
BRIDGEPORT, WV 26330

Re: Permit approval for 61
47-045-00194-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: 61
Farm Name: WM. RITTER LUMBER CO.
U.S. WELL NUMBER: 47-045-00194-00-00
Vertical / Plugging
Date Issued: 7/11/2017

Promoting a healthy environment.

07/14/2017

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

Date: June 5, 2017
Operator's Well _____
Well No. 014860 (W. M. Ritter Lumber Co. #61)
API Well No.: 47 045 - 00194

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CHK# 22850
6-6-17
\$200.⁰⁰

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil _____ Gas X Liquid Injection _____ Waste Disposal: _____
If Gas, Production _____ X Or Underground storage _____ Deep _____ Shallow X

5) Elevation: 1527 ft. Watershed: Elk Creek
Location: Triadelphia County: Logan Quadrangle: Mallory 7.5'
District: _____

6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place Address: 120 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil & Gas Jeffery L. Smith 9) Plugging Contractor:
Name: 5369 Big Tyler Road Name: HydroCarbon Well Service
Address: Cross Lanes, WV 25313 Address: PO BOX 995
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:

See Attachment for details and procedures.

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WV Department of
Environmental Protection

OFFICE USE ONLY

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector _____ Date _____

07/14/2017

PLUGGING PROGNOS

014860
 Ritter Land Co. #61
 API# 47-109-00194
 District, Tridelphia
 Logan County, WV

BY: R Green
 DATE: 05/08/17

CURRENT STATUS:

TD @ 3682'
Elevation @ 1532'

13 3/8" casing @ 52'
 10 3/4" casing @ 718'
 8 5/8" casing @ 2017' (Cemented from bottom up 56'?)
 7" casing @ 2713'
 3 1/2" tubing @ 3682'

Fresh Water @ 75'
 Saltwater @ None Reported
Oil Show @ None Reported
Gas shows @ 1240', 3048', & 3080'
 Coal @ 135'
 Completion, (Shot with 120 quarts of nitroglycerin from 3630' to 3670'.)

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 Environmental Protection

1. Notify inspector, Jeffery L. Smith @ 681-313-6743, 24 hours prior to commencing operations.
2. TOOH 3 1/2" tubing, check TD @ or below 3600'.
3. TIH and spot 40 bbl. of 6% gelled water, followed by a 300' C1A cement plug, 3600', to 3300' (Berea Sand)
4. WOC 8 hrs., TAG TOC, add additional C1A cement if necessary.
5. TOOH to 3100', set 500' C1A cement plug 3100' to 2600'. (7" casing seat & gas shows @ 3048', 3080').
6. Free point 7" casing, cut casing @ free point, TOOH 7" casing.
7. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
8. TOOH to 2100', set 200' C1A cement plug 2100' to 1900'. (8 5/8" casing seat).
9. Free point 8 5/8" casing, cut casing @ free point, TOOH 8 5/8" casing.
10. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
11. TOOH to 1600, set 500' C1A cement plug, 1600' to 1100'. (Elevation @ 1532' & Gas show @ 1240').
12. TOOH to 800', set a 200' C1A cement plug 800' to 600', (10 3/4" casing seat).
13. Free point 10 3/4" casing, cut casing @ free point, TOOH 10 3/4" casing.
14. **Note * if unable to cut and pull 10 3/4" casing, contact EQT supervisor and state inspector.**
15. Set a C1A cement plug 50' in casing cut to surface. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs.
16. Erect monument with API#, date plugged, company name.
17. Reclaim location and road to WV-DEP specifications.

07/14/2017

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

4500194A

Permit No. Log 194
Gilbert Quad.
Company
Address
Farm
Location
Well No.
District
Surface

Mineral
Commenced
Completed
Date shot

Open flow
Volume
Rock Pressure
Fresh Water

Gas Well
CASING & TUBING

United Producing Co. Inc.
Box 1913, Charleston 27, W.Va. 13 3/8 52 52
W.M. Ritter Lumber Co. A 67,182 10 7/8 718 718
Stone Coal Branch of Elk Ck. 8 5/8 2017 2017
61 (1486) Elev. 1532.37' 7 OD 2713 2713
Tridelpia Logan County 3 1/2 3682 3682
W.M. Ritter Lumber Co.,
115 E. Rich St., Columbus, 15, Ohio Depth 3001'
Samo Perf. top 3634
bot 3667

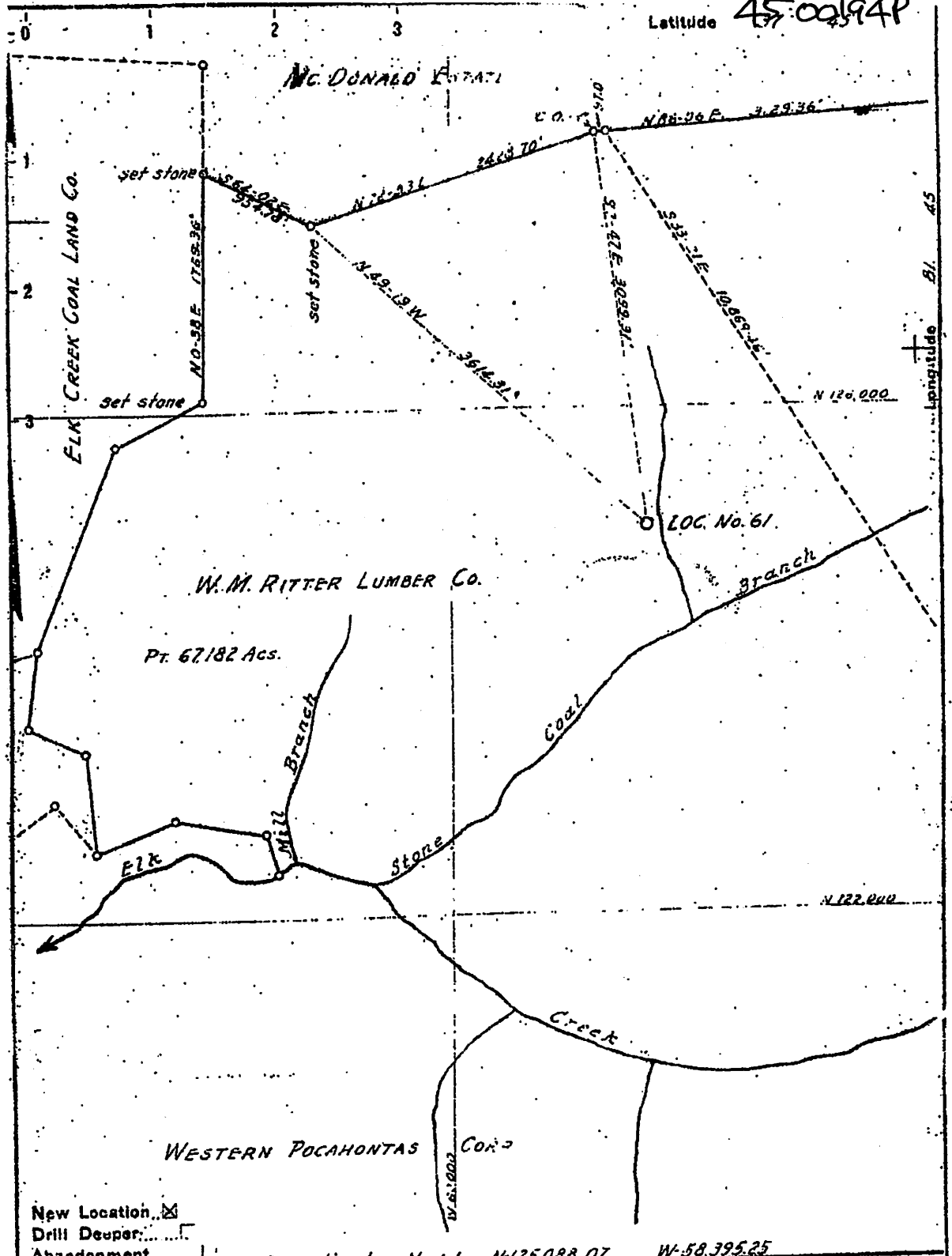
March 25, 1948
Sept. 3, 1948
9-13-48 Depth 3630' to 3670' Casing cemented 8 5/8"
with 120 qts. nitroglycerine 56'
18/10ths M in 2"
660,000 G.F. Coal 135' 60"
780 lbs. 48 hrs.
75' H.F.

Soil	0	6	Lime Blk	2520	2570
Slate	6	52	Lime Rod	2570	2600
Sand	52	125	Little Lime	2600	2650
Slate	125	135	Pencil	2650	2685
Coal	135	140	Big Limo	2685	3095
Slate	140	150	Injun Sand	3095	3145
Sand	150	190	Lime Sandy	3145	3184
Slate	190	200	Squaw Sand	3184	3200
Lime	200	240	Limo Sandy	3200	3325
Slate	240	260	Slate & Shells	3325	3620
Sand	260	335	Shale Br	3620	3630
Slate & Shells	335	365	Berea Sand	3630	3670
Sand	365	400	Slate	3670	3682
Slate & Shells	400	445	Total dophth		3682
Sand	445	480			
Slate & Shells	480	520	Gas 1240' show		
Lime Sandy	520	615	Gas 3048' show		
Sand	615	680	Gas 3080' 10/10 W 2" 133 M		
Slate & Shells	680	705			
Sand Yellow H	705	990			
Slate	990	997			
Sand	997	1040			
Slate	1040	1122			
Salt Sand	1122	1485			
Slate	1485	1525			
Sand Yellow H	1525	1640			
Slate	1640	1645			
Sand Yellow H	1645	1870			
Slate	1870	1890			
Red Rock	1890	1925			
Slate & Shells	1925	1975			
Lime	1975	1995			
Slate	1995	2010			
Sand	2010	2052			
Slate	2052	2060			
Lime Sandy	2060	2072			
Slate & Shells	2072	2200			
Red Rock	2200	2206			
Maxon Sand	2206	2240			
Lime Rod	2240	2275			
Maxon Sand	2275	2320			
Lime	2320	2340			
Red Rock	2340	2350			
Slate	2350	2360			
Sand	2360	2371			
Slate	2371	2400			
Lime	2400	2410			
Red Rock	2410	2440			
Sand	2440	2480			
Lime Red	2480	2520			

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07/14/2017

Latitude 45 00 19.4 P



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WV Department of
Environmental Protection

New Location
Drill Deeper
Abandonment

Coordinates No. 61 N-125,088.07 W-58,395.25

Company UNITED PRODUCING CO. INC.
 Address CHARLESTON, W. VA.
 Farm W. M. RITTER LUMBER CO.
 Tract _____ Acres 67.182 Lease No. 4157
 Well (Farm) No. 61 Serial No. 1486
 Elevation (Spirit Level) 1525.3 GR.
 Quadrangle GILBERT (N.E.) (15-B)
 County LOGAN District TRIADOLPHIA
 Engineer C. W. Johnson
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. LOG-194

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

07/14/2017

4500194P

WW-4-A
Revised 6/07

1) Date: June 5, 2017
2) Operator's Well Number
014860 (W. M. Ritter Lumber Co. #61)
3) API Well No.: 47 045 - 00194
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4) Surface Owner(s) to be served:
(a) Name Heartwood Forestland Fund IV P
Address P. O. Box 9162
Chapel Hill, NC 27515

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Jeffery L. Smith
Address 5369 Big Tyler Road
Cross Lanes, WV 25313
Telephone (681) 313-6743

5) (a) Coal Operator:
Name Ramaco Resources, LLC
Address 250 West Main St., Suite 210
Lexington, KY 40507

(b) Coal Owner(s) with Declaration
Name NRP, LLC/WPP, LLC
Address 5260 Irwin Road
Huntington, WV 25705

(c) Coal Lessee with Declaration
Name Ramaco Resources, LLC
Address 250 West Main St., Suite 210
Lexington, KY 40507

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WV Department of
Environmental Protection

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

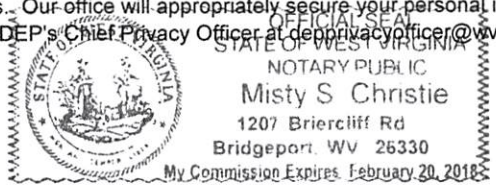
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator: EQT Production Company
By: Victoria J. Roark
Its: Permitting Supervisor
Address: PO Box 280
Bridgeport, WV 26330
Telephone: (304) 848-0076

Subscribed and sworn before me this 5th day of June, 2017
Misty S. Christie Notary Public
My Commission Expires: 2/20/18

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



07/14/2017

45 00194P

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 Adult Signature Restricted Delivery \$

Postage \$
 Total \$
 Sent \$
 Sir
 City

Heartwood Forestland Fund IV P
 P. O. Box 9162
 Chapel Hill, NC 27515
 Plugging Permit #014860

PS Form 3811, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

VR

Postmark
Here

Plugging Permit #014860

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WV Department of
Environmental Protection

mitting Department
duction
280
rt, WV 26330

PS Form 3811, July 2015 PSN 7530-02-000-9053

2. Article Number (Transfer from envelope label)
7016 2070 0001 0947 9731
9590 9402 2551 6306 5752 50

3. Service Type
 Adult Signature
 Certified Mail®
 Certified Mail Restricted Delivery
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 Delivery Restricted Delivery
 Registered Mail™
 Registered Mail Restricted Delivery
 Priority Mail Express®

1. Article Addressed to:
 Heartwood Forestland Fund IV P
 P. O. Box 9162
 Chapel Hill, NC 27515
 Plugging Permit #014860

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

B. Received by (Printed Name)
 C. Date of Delivery
 X

Domestic Return Receipt

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Shipping Department
 Attention: 280
 Rt. WV 26330

PS Form 3811, July 2015 PSN 7530-02-000-9053

1. Article Addressed to:
 Heartwood Forestland Fund IV P
 P. O. Box 9162
 Chapel Hill, NC 27515
 Plugging Permit #014860

2. Article Number (Transfer from envelope label)
 7016 2070 0001 0947 9731

3. Service Type
 Registered MailTM
 Registered Mail Restricted Delivery
 Priority Mail ExpressSM
 Return Receipt for Merchandise
 Certified MailSM
 Certified Mail Restricted Delivery
 Collect on Delivery
 Signature ConfirmationTM
 Signature Confirmation Restricted Delivery
 Return Receipt for Merchandise Restricted Delivery
 Signature Confirmation Restricted Delivery
 Restricted Delivery (over \$500)

4. Is delivery address different from item 1? Yes No

5. Received by (Printed Name) _____
 C. Date of Delivery _____

6. Addressee

7. Domestic Return Receipt

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Return Receipt (hardcopy) \$ _____

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$ _____

Total \$ _____

Heartwood Forestland Fund IV P
 P. O. Box 9162
 Chapel Hill, NC 27515
 Plugging Permit #014860

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Plugging Permit #014860

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Sent To

Street and

City, State,

Ramaco Resources, LLC
250 West Main Street, Suite 210
Lexington, KY 40507

Plugging Permit #014860

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

Plugging Permit #014860

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WV Department of
Environmental Protection

Permitting Department
Production
Box 280
Martinsburg, WV 26330

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PS Form 3811, July 2015 PSN 7530-02-000-9053

- Priority Mail Express[®]
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- Adult Signature Restricted Delivery
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- Certified Mail Restricted Delivery
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- Signature Confirmation[™]
- Signature Confirmation Restricted Delivery

2. Article Number (Transfer from service label)
7016 2070 0001 0947 9755



9590 9402 2551 6306 5765 92

Plugging Permit #014860

Ramaco Resources, LLC
250 West Main Street, Suite 210
Lexington, KY 40507

D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

B. Received by (Printed Name)
C. Date of Delivery

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so that we can return the card to you.
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to the front if space permits.

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<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage \$ _____

Total Postage \$ _____

Sent To _____

Street and _____

City, State, _____

Ramaco Resources, LLC
250 West Main Street, Suite 210
Lexington, KY 40507

Plugging Permit #014860

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Plugging Permit #014860

Permitting Department
Production
Box 280
Martinsburg, WV 26330

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1. Article Addressed to:
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in the front if space permits.

2. Article Number (Transfer from service label)
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9590 9402 2551 6306 5765 92

Ramaco Resources, LLC
250 West Main Street, Suite 210
Lexington, KY 40507
Plugging Permit #014860

3. Service Type
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Mail
 Mail Restricted Delivery (over \$500)
 Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Return Receipt for Certified Mail®
 Signature Confirmation™
 Signature Confirmation Restricted Delivery
 Restricted Delivery

4. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

B. Received by (Printed Name) _____
C. Date of Delivery _____
D. Addressee

Domestic Return Receipt

07/14/2017

Permitting Department
 Production
 Box 280
 Post, WV 26330

- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 NRP, LLC/WPP, LLC
 5260 Irwin Road
 Huntington, WV 25705
 Plugging Permit #014860



9590 9402 2551 6306 5752 67

2. Article Number (Transfer from service label)
 7016 2070 0001 0947 9748

X Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Insured Mail Restricted Delivery	

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<input type="checkbox"/>	Return Receipt (electronic)	\$
<input type="checkbox"/>	Certified Mail Restricted Delivery	\$
<input type="checkbox"/>	Adult Signature Required	\$
<input type="checkbox"/>	Adult Signature Restricted Delivery	\$

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Total \$

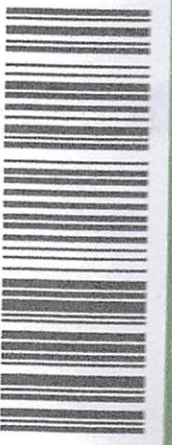
NRP, LLC/WPP, LLC
 5260 Irwin Road
 Huntington, WV 25705

City: Huntington, WV 25705
 State: WV
 Zip: 25705

Plugging Permit #014860

PS Form 3800, April 2015 PSN 7530-02-000-9047
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7016 2070 0001 0947 9748
 7016 2070 0001 0947 9748



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4500194P

WW-9
Revised 5/16

Page _____ of _____
2) Operator's Well Number
014860 (W. M. Ritter Lumber Co. #61)
3) API Well No.: 47 045 - 00194

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

RECEIVED
Office of Oil and Gas

JUN 9 2017

WV Department of
Environmental Protection

Operator Name: EQT PRODUCTION COMPANY OP CODE: _____

Watershed (HUC 10): Elk Creek Quadrangle: Mallory 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ___ No X

Will a pit be used? Yes X No ___

If so, please describe anticipated pit waste: Formation Fluids

Will a synthetic liner be used in the pit? Yes X No ___ Is so, what ml.? 20 10 ml

Proposed Disposal Method for Treated Pit Wastes: NO LAND APPLICATION.

Land Application (if selected provide a completed form WW-9-GPP)

Underground Injection (UIC Permit Number _____)
X Reuse (at API Number -- Various _____)
X Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)

Other: (Explain _____)

Will closed loop system be used? If so, describe: _____

Drilling medium anticipated for this well? (vertical and horizontal)? Air, freshwater, oil based, etc. _____

If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____

If left in pit and plan to solidify what medium will be used? (cement, Lime, sawdust) _____

Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for

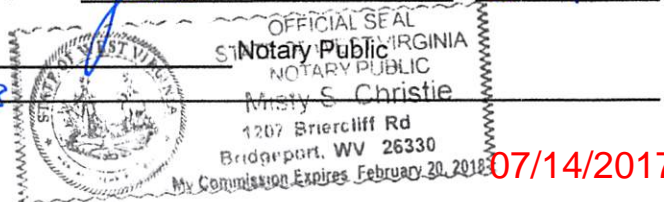
Company Official Signature _____

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor - WV

Subscribed and sworn before me this 7th day of June, 2017

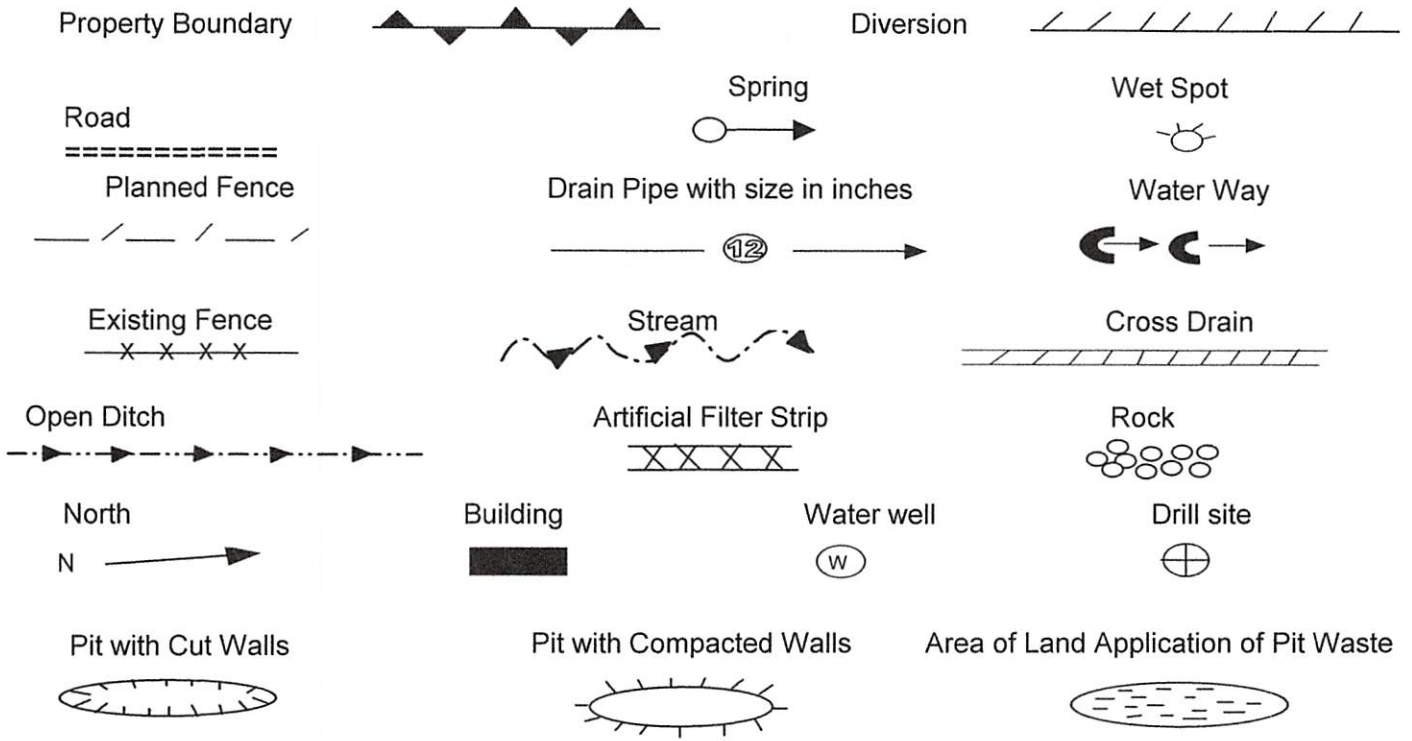
My Commission Expires 2/20/18



4500194P

OPERATOR'S WELL NO.:
4860 (W. M. Ritter Lumber Co. #61)

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

SEED MIXTURES

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

ATTACH:
Drawing(s) of road, location, pit and proposed area for land application.
Photocopies section of involved 7.5' topographic sheet.

Plan approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? Yes No

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WV Department of
Environmental Protection

OK gwm

07/14/2017

4500194P

EQT Production Water plan
Offsite disposals

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98
Approval #100785WV

Waste Management - Northwestern Landfill

512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV

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Topo Quad: Mallory 7.5'

Scale: 1" = 200'

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County: Logan

Date: May 15, 2017

JUN 9 2017

District: Triadelphia

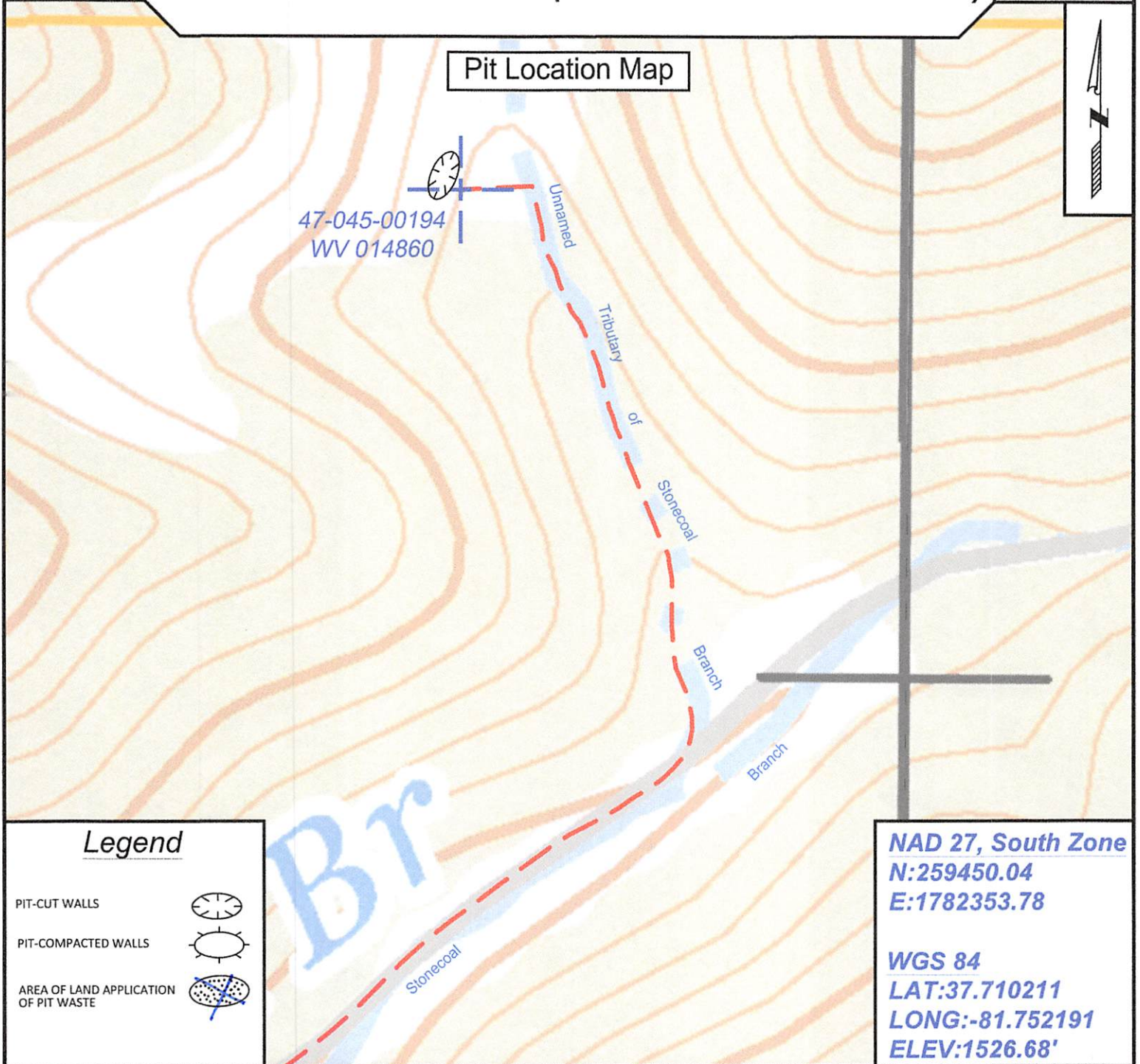
Project No: 21-21-00-08

WV Department of
Environmental Protection

47-045-00194 WV 014860 (W.M. Ritter Lumber Co. #61)

Topo

Pit Location Map



Legend

- PIT-CUT WALLS
- PIT-COMPACTED WALLS
- AREA OF LAND APPLICATION OF PIT WASTE

NAD 27, South Zone
N:259450.04
E:1782353.78

WGS 84
LAT:37.710211
LONG:-81.752191
ELEV:1526.68'



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
Bridgeport, WV 26330

07/14/2017

4500194P

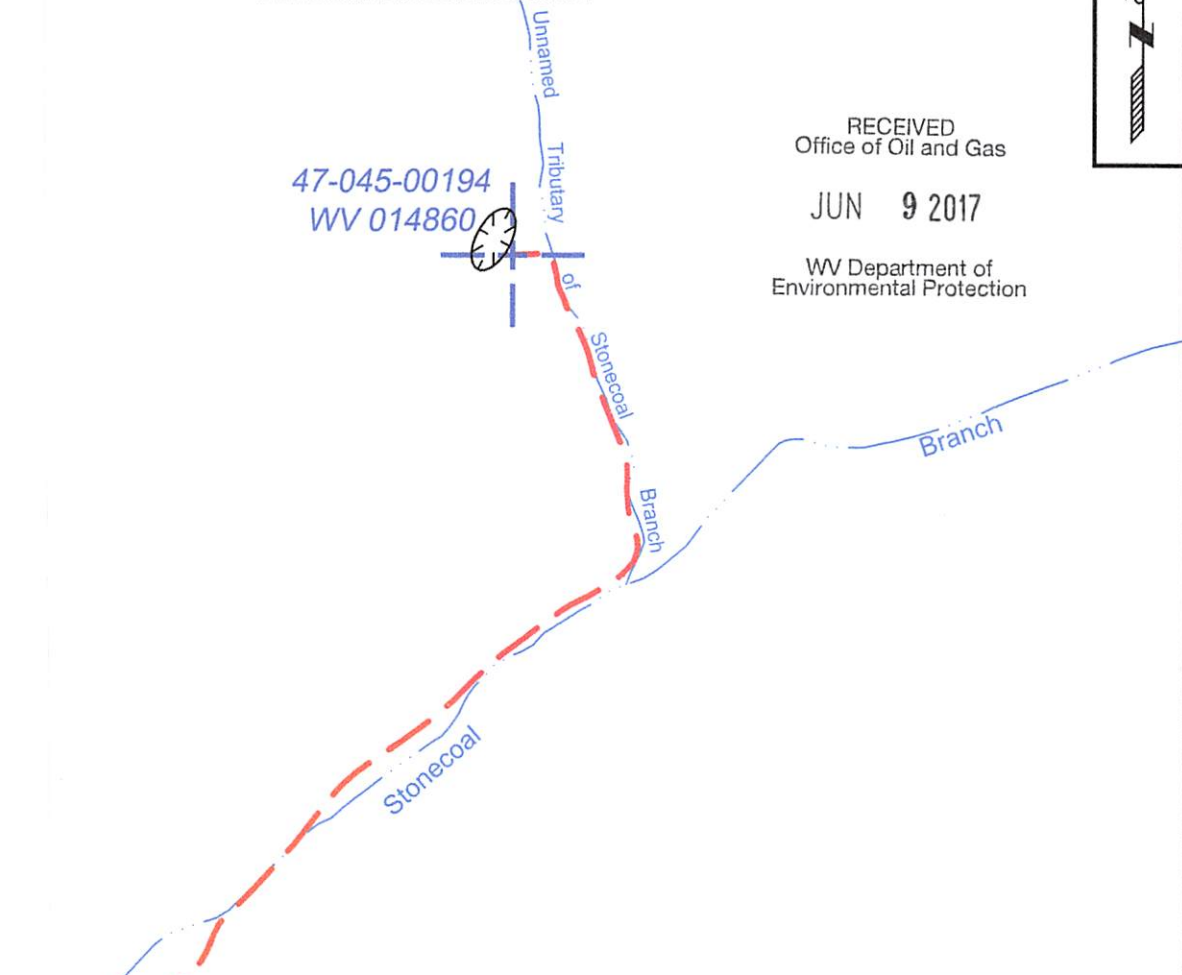
Topo Quad: Mallory 7.5' Scale: 1" = 500'

County: Logan Date: May 15, 2017

District: Triadelphia Project No: 21-21-00-08

Highway **47-045-00194 WV 014860 (W.M. Ritter Lumber Co. #61)**

Pit Location Map



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Legend

- PIT-CUT WALLS
- PIT-COMPACTED WALLS
- AREA OF LAND APPLICATION OF PIT WASTE

NAD 27, South Zone
N:259450.04
E:1782353.78

WGS 84
LAT:37.710211
LONG:-81.752191
ELEV:1526.68'



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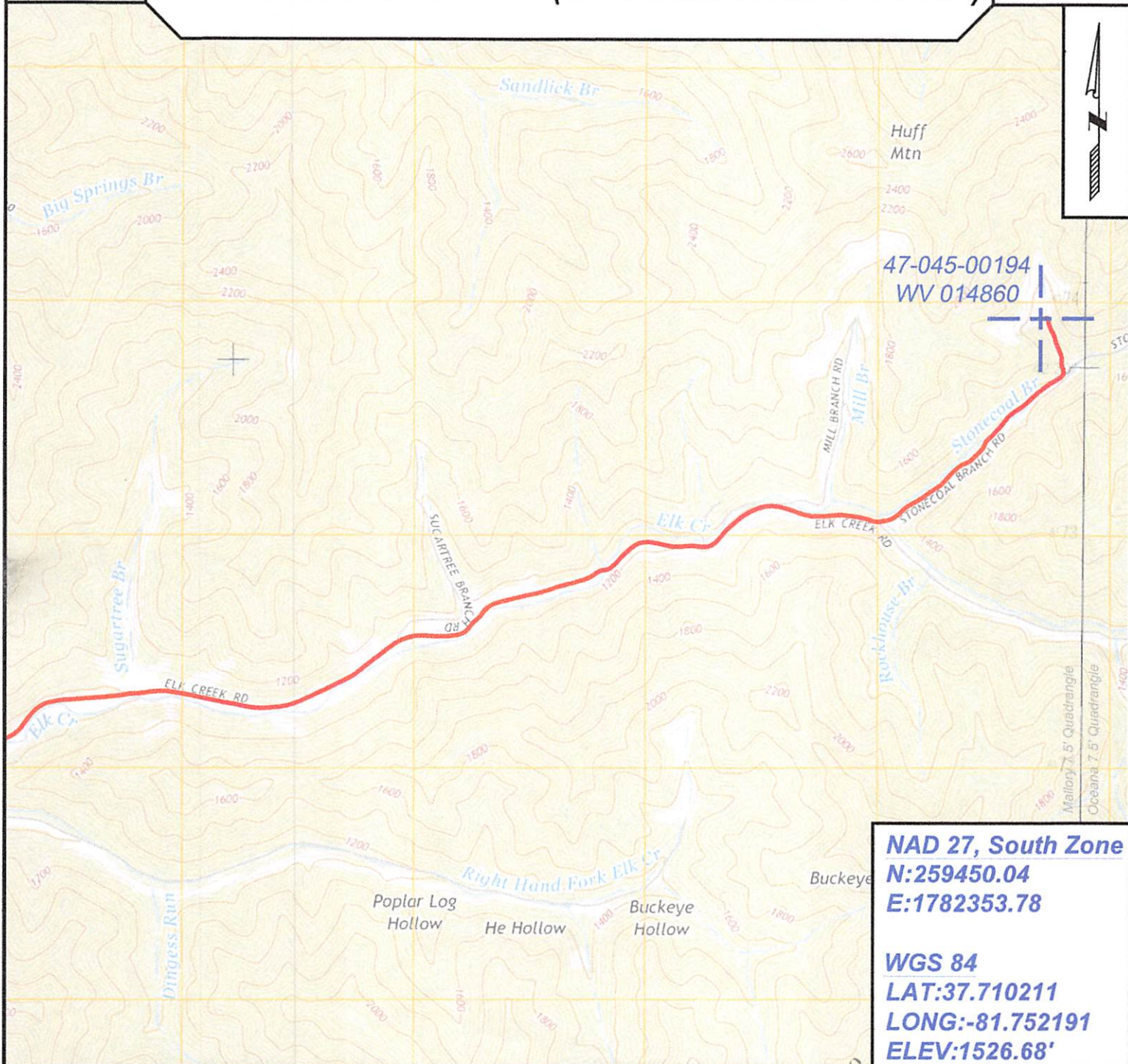
PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330
07/14/2017

4500194P

Topo Quad: Mallory 7.5' RECEIVED Scale: 1" = 2000'
Office of Oil and Gas
 County: Logan JUN 9 2017 Date: May 15, 2017
 District: Triadelphia WV Department of Project No: 21-21-00-08
Environmental Protection

47-045-00194 WV 014860 (W.M. Ritter Lumber Co. #61)

Topo



NAD 27, South Zone
N:259450.04
E:1782353.78

WGS 84
LAT:37.710211
LONG:-81.752191
ELEV:1526.68'



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330
07/14/2017



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POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EOT PRODUCTION COMPANY

LEASE NAME AND WELL No. W.M. Ritter Lumber Co. #61 WV 014860 47-045-00194

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 014860.

BIRCH RIVER OFFICE

237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE

172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

ALUM CREEK OFFICE

P.O. Box 108 • 1413 Childress Rd
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

MARTINSBURG OFFICE

25 Lights Addition Drive
Martinsburg, WV 25404
phone: 304-901-2162
fax: 304-901-2182

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4500194P

Topo Quad: Mallory 7.5'

Scale: 1" = 2000'

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Office of Oil and Gas

County: Logan

Date: May 15, 2017

JUN 9 2017

District: Triadelphia

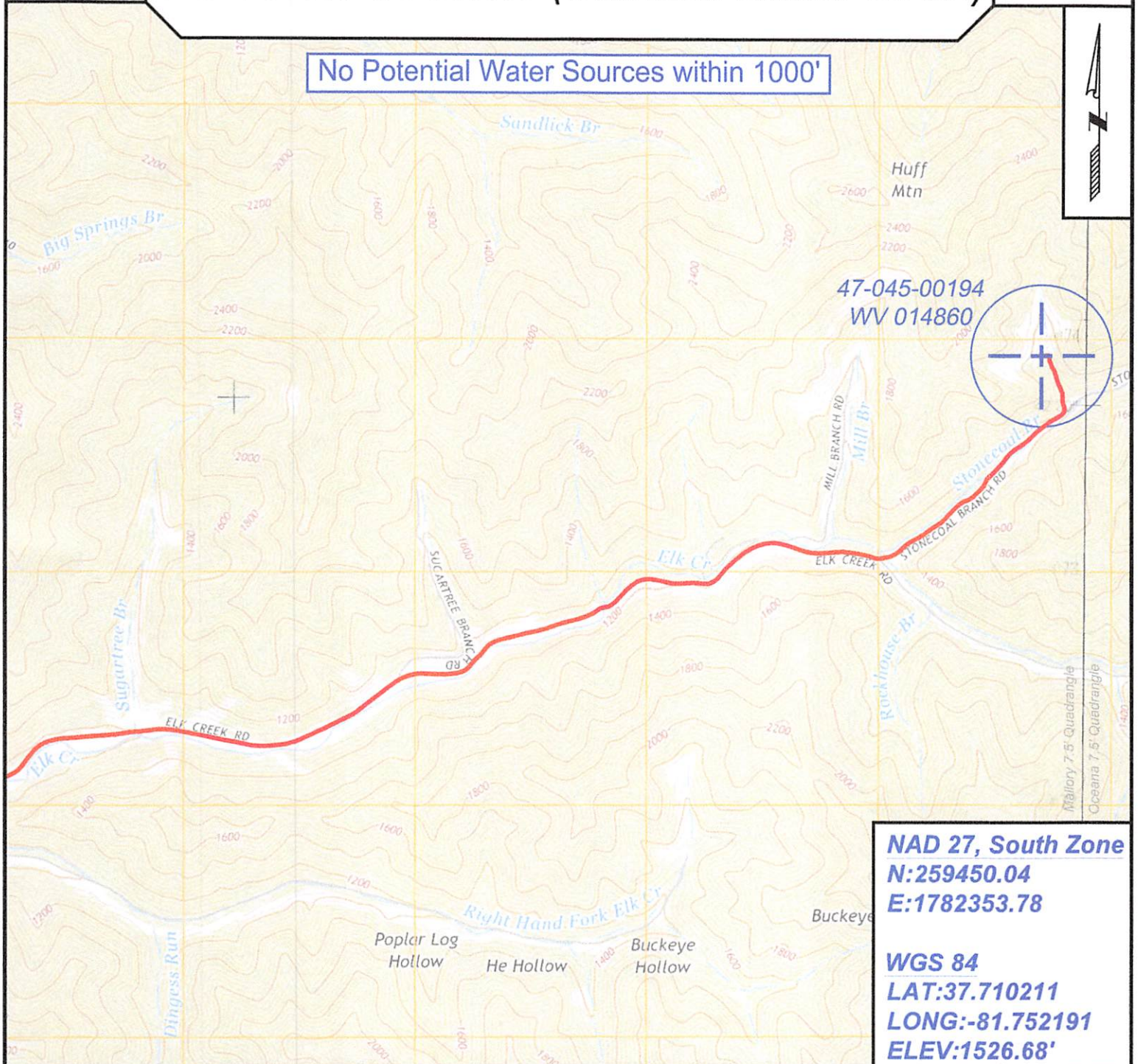
Project No: 21-21-00-08

WV Department of
Environmental Protection

Water

47-045-00194 WV 014860 (W.M. Ritter Lumber Co. #61)

No Potential Water Sources within 1000'



47-045-00194
WV 014860

NAD 27, South Zone
N:259450.04
E:1782353.78

WGS 84
LAT:37.710211
LONG:-81.752191
ELEV:1526.68'



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 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330
 07/14/2017

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-045-00194 WELL NO.: WV 014860 (W. M. Ritter Lumber Co. #61)

FARM NAME: W. M. Ritter Lumber Co.

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Logan DISTRICT: Triadelphia

QUADRANGLE: Mallory 7.5'

SURFACE OWNER: Heartwood Forestland Fund IV, Limited Partnership

ROYALTY OWNER: Plum Creek Timberlands

UTM GPS NORTHING: 4173929

UTM GPS EASTING: 433700 GPS ELEVATION: 465m (1527ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
Survey grade GPS _____: Post Processed Differential _____
Real-Time Differential _____
Mapping Grade GPS X _____: Post Processed Differential X _____
Real-Time Differential _____
4. Letter size copy of the topography map showing the well location.

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Office of Oil and Gas
JUN 9 2017
WV Department of
Environmental Protection

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

 _____	PS # <u>2180</u> _____	<u>5/19/17</u> _____
Signature	Title	Date